## WHAT IS CLAIMED IS:

1	<ol> <li>An apparatus for aerial spray marking of ground surface</li> </ol>
2	said apparatus comprising:
3	a source of a marking substance; and
4	means for producing a highly forceful shot of said marking
5	substance capable of penetrating dense foliage.
1	2. The apparatus of claim 1 wherein said means for
2	producing a highly forceful shot is a solid stream spray nozzle.
1	3. The apparatus of claim 2 further comprising means for
2	tilting said solid stream spray nozzle.
1	4. The apparatus of claim 1 further comprising means for
2	adjusting shot forcefulness.
1	5. The apparatus of claim 1 further comprising means for
2	supporting said apparatus from an aircraft.
1	6. A system for aerial spraying of ground surfaces, said
2	system comprising:
3	a storage tank for holding a substance;
4	means for pressurizing said storage tank;
5	a spray nozzle assembly; and
6	a feed line connecting said storage tank and said nozzle
7	assembly so as to deliver pressurized substance to said spray nozzle
8	assembly.
1	7. The system of claim 6 wherein said means for
2	pressurizing said storage tank includes a cylinder of compressed gas.
1	8. The system of claim 7 wherein said cylinder contains an
2	inert gas.
1	9. The system of claim 7 further comprising a pressure
2	regulator, a high pressure line connecting said cylinder to said pressure
3	regulator, and a first regulated gas line connecting said pressure regulator to
4	said storage tank.

1	10. The system of claim 9 wherein said spray nozzle				
2	assembly includes a first valve connected to said feed line, a spray nozzle				
3	connected to said first valve, and a second valve arranged to open and close				
4	said first valve.				
1	<ol> <li>The system of claim 10 wherein said spray nozzle is a</li> </ol>				
2	solid stream spray nozzle.				
1	12. The system of claim 10 further comprising means for				
2	tilting said spray nozzle.				
1	13. The system of claim 10 further comprising:				
2	a second regulated gas line connecting said pressure regulator				
3	to said second valve; and				
4	first and second pneumatic control ports fluidly connecting said				
5	second valve to said first valve, wherein said second valve is a solenoid valve				
6	having a first state in which said first pneumatic control port is pressurized by				
7	said second regulated gas line and a second state in which said second				
8	pneumatic control port is pressurized by said second regulated gas line, and				
9	wherein said first valve is closed when said first pneumatic control port is				
10	pressurized and said first valve is opened when said second pneumatic				
11	control port is pressurized.				
1	14. The system of claim 13 further comprising a controller for				
2	controlling said second valve.				
1	15. The system of claim 14 further comprising means for				
2	selecting how said controller controls said second valve.				
1	<ol><li>The system of claim 14 further comprising a shut off</li></ol>				
2	valve disposed in said feed line.				
	47. The system of claim 16 further comprising mappe for				
1	17. The system of claim 16 further comprising means for				
2	sensing pressure of gas output from said pressure regulator, said controller				
3	controlling said shut off valve in response to said means for sensing pressure.				

1		18.	The system of claim 7 further comprising a trame, said		
2	storage tank, said cylinder and said spray nozzle assembly all being mounted				
3	on said frame				
			The second of the second secon		
1		19.	The system of claim 18 wherein said cylinder is		
2	removably mo	ounted	to said frame.		
1		20.	The system of claim 18 further comprising means for		
2			ne from an aircraft.		
2	Supporting of				
1		21.	The system of claim 20 wherein said means for		
2	supporting in	cludes	at least one attachment arm extending from said frame		
3	and a cable of	connec	ted at one end to said attachment arm and at another end		
4	to an aircraft		•		
		00	The system of claim 6 wherein said spray nozzle		
1		22.			
2	assembly includes a main valve connected to said feed line and a spray nozzle connected to said main valve.				
3	nozzle conne	ectea t	o salo main valve.		
1		23.	The system of claim 22 wherein said spray nozzle is a		
2	solid stream	spray			
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1		24.	The system of claim 22 further comprising means for		
2	tilting said s	pray no	ozzle.		
		25.	The system of claim 22 further comprising a shut off		
1	valva dispos	ed in s	said feed line between said storage tank and said main		
2	valve dispos	SCU III C	Suid 1904 IIII Postero San		
3	valve.				
1		26.	A method for aerial spray marking of ground surfaces,		
2	said method comprising:				
3	providing a source of a marking substance;				
4		flying	g over a ground surface; and		
5		spra	ying a highly forceful shot of said marking substance onto		
6	said ground surface, wherein said shot is forceful enough to penetrate dense				
7	foliage.				
_		27	A method for aerial spraying of ground surfaces, said		
1	42	27.			
2	method cor	npnsin	<b>.</b>		

3	3	providing a storage tank for holding a substance to be sprayed;
4	4	pressurizing said storage tank;
	5	supplying pressurized substance from said storage tank to a
6	3	spray nozzle assembly;
7	7	flying over a target site; and
8	8	selectively activating said spray nozzle assembly to spray
•	9	pressurized substance onto ground surfaces.
		$\frac{38}{32}$ . The method of claim 27 wherein said storage tank is
	1	,
	2	pressurized by introducing a pressurized gas into said storage tank.
	1	29. The method of claim 28 wherein said gas is an inert gas.
	1	30. The method of claim 28 further comprising sensing the
	2	pressure of said pressurized gas and shutting off supply of pressurized
	3	substance from said storage tank to said spray nozzle assembly if the sensed
	4	pressure falls below a predetermined level.
	•	
)	1	31. The method of claim 28 further comprising selecting the
	2	pressure of said pressurized gas introduced into said storage tank.
•	1	32. The method of claim 27 wherein said spray nozzle
	2	assembly includes a solid stream spray nozzle.
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	1	<ol> <li>The method of claim 32 further comprising tilting said</li> </ol>
	2	spray nozzle to a desired angle.
	1	34. The method of claim 27 wherein a pressurized gas is
	2	used to selectively activate said spray nozzle assembly.
	4	used to selectively delivate sale opiny to the
	1	35. The method of claim 27 wherein said substance to be
	2	sprayed is a marking substance.
		36. The method of claim 35 wherein said substance includes
	1	
	2	paint.
	1	37. The method of claim 35 wherein said substance includes
	2	a luminescent material.
	Z	a minimosociil material.